

Jian Zhang

List of Publications by Citations

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211
papers

10,193
citations

48
h-index

95
g-index

218
ext. papers

11,831
ext. citations

8.2
avg, IF

6.44
L-index

#	Paper	IF	Citations
211	A review on the occurrence of micropollutants in the aquatic environment and their fate and removal during wastewater treatment. <i>Science of the Total Environment</i> , 2014 , 473-474, 619-41	10.2	2205
210	A review on the sustainability of constructed wetlands for wastewater treatment: Design and operation. <i>Bioresource Technology</i> , 2015 , 175, 594-601	11	557
209	Equilibrium and kinetic studies of methyl orange and methyl violet adsorption on activated carbon derived from <i>Phragmites australis</i> . <i>Desalination</i> , 2010 , 252, 149-156	10.3	484
208	Adsorption of Pb(II) on activated carbon prepared from <i>Polygonum orientale</i> Linn.: kinetics, isotherms, pH, and ionic strength studies. <i>Bioresource Technology</i> , 2010 , 101, 5808-14	11	269
207	Adsorption of malachite green from aqueous solution onto carbon prepared from <i>Arundo donax</i> root. <i>Journal of Hazardous Materials</i> , 2008 , 150, 774-82	12.8	237
206	Adsorptive removal of Cr (VI) by Fe-modified activated carbon prepared from <i>Trapa natans</i> husk. <i>Chemical Engineering Journal</i> , 2010 , 162, 677-684	14.7	197
205	Nutrient removal in constructed microcosm wetlands for treating polluted river water in northern China. <i>Ecological Engineering</i> , 2011 , 37, 560-568	3.9	176
204	Sorption of norfloxacin by lotus stalk-based activated carbon and iron-doped activated alumina: Mechanisms, isotherms and kinetics. <i>Chemical Engineering Journal</i> , 2011 , 171, 431-438	14.7	165
203	Nitrogen removal in intermittently aerated vertical flow constructed wetlands: impact of influent COD/N ratios. <i>Bioresource Technology</i> , 2013 , 143, 461-6	11	157
202	Impact of COD/N ratio on nitrous oxide emission from microcosm wetlands and their performance in removing nitrogen from wastewater. <i>Bioresource Technology</i> , 2009 , 100, 2910-7	11	143
201	Intermittent aeration strategy to enhance organics and nitrogen removal in subsurface flow constructed wetlands. <i>Bioresource Technology</i> , 2013 , 141, 117-22	11	131
200	Removal of cephalexin from aqueous solutions by original and Cu(II)/Fe(III) impregnated activated carbons developed from lotus stalks Kinetics and equilibrium studies. <i>Journal of Hazardous Materials</i> , 2011 , 185, 1528-35	12.8	120
199	Effect of salinity on extracellular polymeric substances of activated sludge from an anoxic-aerobic sequencing batch reactor. <i>Chemosphere</i> , 2013 , 93, 2789-95	8.4	119
198	Decentralized domestic wastewater treatment using intermittently aerated vertical flow constructed wetlands: impact of influent strengths. <i>Bioresource Technology</i> , 2015 , 176, 163-8	11	117
197	Optimizations on supply and distribution of dissolved oxygen in constructed wetlands: A review. <i>Bioresource Technology</i> , 2016 , 214, 797-805	11	117
196	Preparation and evaluation of activated carbon-based iron-containing adsorbents for enhanced Cr(VI) removal: Mechanism study. <i>Chemical Engineering Journal</i> , 2012 , 189-190, 295-302	14.7	104
195	Effects of pH on nitrogen transformations in media-based aquaponics. <i>Bioresource Technology</i> , 2016 , 210, 81-7	11	99

194	Adsorption of 2,4,6-trichlorophenol from aqueous solution onto activated carbon derived from loosestrife. <i>Desalination</i> , 2011 , 267, 139-146	10.3	95
193	Textural properties and surface chemistry of lotus stalk-derived activated carbons prepared using different phosphorus oxyacids: adsorption of trimethoprim. <i>Journal of Hazardous Materials</i> , 2012 , 235-236, 367-75	12.8	91
192	Methane emissions from a full-scale A/A/O wastewater treatment plant. <i>Bioresource Technology</i> , 2011 , 102, 5479-85	11	91
191	Nitrogen removal enhanced by intermittent operation in a subsurface wastewater infiltration system. <i>Ecological Engineering</i> , 2005 , 25, 419-428	3.9	91
190	Preparation and evaluation of cattail fiber-based activated carbon for 2,4-dichlorophenol and 2,4,6-trichlorophenol removal. <i>Chemical Engineering Journal</i> , 2011 , 168, 553-561	14.7	90
189	Enhanced organics and nitrogen removal in batch-operated vertical flow constructed wetlands by combination of intermittent aeration and step feeding strategy. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2448-55	5.1	86
188	Preparation of activated carbon from lotus stalks with the mixture of phosphoric acid and pentaerythritol impregnation and its application for Ni(II) sorption. <i>Chemical Engineering Journal</i> , 2012 , 209, 155-162	14.7	79
187	Effect of intermittent operation on contaminant removal and plant growth in vertical flow constructed wetlands: A microcosm experiment. <i>Desalination</i> , 2010 , 262, 202-208	10.3	79
186	Bacterial community variation and microbial mechanism of triclosan (TCS) removal by constructed wetlands with different types of plants. <i>Science of the Total Environment</i> , 2015 , 505, 633-9	10.2	74
185	The configuration, purification effect and mechanism of intensified constructed wetland for wastewater treatment from the aspect of nitrogen removal: A review. <i>Bioresource Technology</i> , 2019 , 293, 122086	11	73
184	Nitrous oxide emission in low-oxygen simultaneous nitrification and denitrification process: sources and mechanisms. <i>Bioresource Technology</i> , 2013 , 136, 444-51	11	73
183	Evaluation of animal hairs-based activated carbon for sorption of norfloxacin and acetaminophen by comparing with cattail fiber-based activated carbon. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 101, 156-165	6	70
182	Effect of anoxic/aerobic phase fraction on N ₂ O emission in a sequencing batch reactor under low temperature. <i>Bioresource Technology</i> , 2011 , 102, 5486-91	11	70
181	Adsorption of Neutral Red onto Mn-impregnated activated carbons prepared from <i>Typha orientalis</i> . <i>Bioresource Technology</i> , 2008 , 99, 8974-80	11	67
180	Nitrogen removal and nitrous oxide emission in surface flow constructed wetlands for treating sewage treatment plant effluent: Effect of C/N ratios. <i>Bioresource Technology</i> , 2017 , 240, 157-164	11	65
179	Enhanced triclosan and nutrient removal performance in vertical up-flow constructed wetlands with manganese oxides. <i>Water Research</i> , 2018 , 143, 457-466	12.5	65
178	Preparation and evaluation of activated carbons from lotus stalk with trimethyl phosphate and tributyl phosphate activation for lead removal. <i>Chemical Engineering Journal</i> , 2013 , 228, 425-434	14.7	63
177	Microbial abundance and community in subsurface flow constructed wetland microcosms: role of plant presence. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 4036-45	5.1	62

176	Preparation and characterization of activated carbon from lotus stalk with guanidine phosphate activation: Sorption of Cd(II). <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 102, 7-15	6	61
175	Intensified organics and nitrogen removal in the intermittent-aerated constructed wetland using a novel sludge-ceramsite as substrate. <i>Bioresource Technology</i> , 2016 , 210, 101-7	11	61
174	Key evaluation framework for the impacts of urbanization on air environment [A case study]. <i>Ecological Indicators</i> , 2013 , 24, 266-272	5.8	60
173	Partial nitrification and nitrous oxide emission in an intermittently aerated sequencing batch biofilm reactor. <i>Chemical Engineering Journal</i> , 2013 , 217, 435-441	14.7	56
172	Effect of aeration rate on the emission of N ₂ O in anoxic-aerobic sequencing batch reactors (A/O SBRs). <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 487-91	3.3	56
171	A study of ferric-carbon micro-electrolysis process to enhance nitrogen and phosphorus removal efficiency in subsurface flow constructed wetlands. <i>Chemical Engineering Journal</i> , 2019 , 359, 706-712	14.7	56
170	Biomass-Derived Carbon Sorbents for Cd(II) Removal: Activation and Adsorption Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 4103-4109	8.3	55
169	Assessment of the Sustainable Development Capacity with the Entropy Weight Coefficient Method. <i>Sustainability</i> , 2015 , 7, 13542-13563	3.6	55
168	Mass Balance Study on Phosphorus Removal in Constructed Wetland Microcosms Treating Polluted River Water. <i>Clean - Soil, Air, Water</i> , 2013 , 41, 844-850	1.6	54
167	Nitrogen transformations and balance in constructed wetlands for slightly polluted river water treatment using different macrophytes. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 443-51	5.1	53
166	Optimization of organics and nitrogen removal in intermittently aerated vertical flow constructed wetlands: Effects of aeration time and aeration rate. <i>International Biodeterioration and Biodegradation</i> , 2016 , 113, 139-145	4.8	53
165	Effect of PHB and oxygen uptake rate on nitrous oxide emission during simultaneous nitrification denitrification process. <i>Bioresource Technology</i> , 2012 , 113, 232-8	11	52
164	Phosphorus removal enhancement of magnesium modified constructed wetland microcosm and its mechanism study. <i>Chemical Engineering Journal</i> , 2018 , 335, 209-214	14.7	51
163	Evaluating the sustainability of free water surface flow constructed wetlands: Methane and nitrous oxide emissions. <i>Journal of Cleaner Production</i> , 2017 , 147, 152-156	10.3	48
162	Enhancement of surface flow constructed wetlands performance at low temperature through seasonal plant collocation. <i>Bioresource Technology</i> , 2017 , 224, 222-228	11	48
161	Ultrasonic-assisted sodium hypochlorite oxidation of activated carbons for enhanced removal of Co(II) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2011 , 175, 24-32	14.7	48
160	Adsorption of 2,4-dichlorophenol on Mn-modified activated carbon prepared from <i>Polygonum orientale</i> Linn. <i>Desalination</i> , 2011 , 266, 175-181	10.3	46
159	Strategies and techniques to enhance constructed wetland performance for sustainable wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 14637-50	5.1	45

158	Weak magnetic field: A powerful strategy to enhance partial nitrification. <i>Water Research</i> , 2017 , 120, 190-198	12.5	44
157	Effect of oxygen supply strategy on nitrogen removal of biochar-based vertical subsurface flow constructed wetland: Intermittent aeration and tidal flow. <i>Chemosphere</i> , 2019 , 223, 366-374	8.4	44
156	Nitrous oxide emissions from surface flow and subsurface flow constructed wetland microcosms: Effect of feeding strategies. <i>Ecological Engineering</i> , 2011 , 37, 1815-1821	3.9	44
155	Simultaneous improvement of waste gas purification and nitrogen removal using a novel aerated vertical flow constructed wetland. <i>Water Research</i> , 2018 , 130, 79-87	12.5	44
154	Impact of carbon source on nitrous oxide emission from anoxic/oxic biological nitrogen removal process and identification of its emission sources. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 1059-69	5.1	43
153	Physiological responses of <i>Phragmites australis</i> to wastewater with different chemical oxygen demands. <i>Ecological Engineering</i> , 2010 , 36, 1341-1347	3.9	43
152	Sorption heavy metal ions by activated carbons with well-developed microporosity and amino groups derived from <i>Phragmites australis</i> by ammonium phosphates activation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 290-296	5.3	41
151	Effect of plant harvesting on the performance of constructed wetlands during winter: radial oxygen loss and microbial characteristics. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7476-84 ^{5.1}	5.1	38
150	Influence of application of manganese ore in constructed wetlands on the mechanisms and improvement of nitrogen and phosphorus removal. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 170, 446-452	7	38
149	Enhance performance of microbial fuel cell coupled surface flow constructed wetland by using submerged plants and enclosed anodes. <i>Chemical Engineering Journal</i> , 2018 , 351, 312-318	14.7	37
148	Preparation and evaluation of wetland plant-based biochar for nitrogen removal enhancement in surface flow constructed wetlands. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 13929-13937 ^{5.1}	5.1	36
147	Spatial distribution of organochlorine pesticides (OCPs) and effect of soil characters: a case study of a pesticide producing factory. <i>Chemosphere</i> , 2013 , 90, 2381-7	8.4	36
146	N ₂ O emission in a partial nitrification system: dynamic emission characteristics and the ammonium-oxidizing bacteria community. <i>Bioresource Technology</i> , 2013 , 127, 400-6	11	35
145	Nitrogen removal from agricultural runoff by full-scale constructed wetland in China. <i>Hydrobiologia</i> , 2009 , 621, 115-126	2.4	35
144	New insights for enhancing the performance of constructed wetlands at low temperatures. <i>Bioresource Technology</i> , 2020 , 301, 122722	11	34
143	Intensified nitrogen transformation in intermittently aerated constructed wetlands: Removal pathways and microbial response mechanism. <i>Science of the Total Environment</i> , 2019 , 650, 2880-2887	10.2	33
142	Heavy metal bioaccumulation and health hazard assessment for three fish species from Nansi Lake, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2015 , 94, 431-6	2.7	32
141	Improving low-temperature performance of surface flow constructed wetlands using <i>Potamogeton crispus</i> L. plant. <i>Bioresource Technology</i> , 2016 , 218, 1257-60	11	31

140	Preparation and evaluation of activated carbon with different polycondensed phosphorus oxyacids (H3PO4, H4P2O7, H6P4O13 and C6H18O24P6) activation employing mushroom roots as precursor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 108, 41-46	6	31
139	Preparation and characterization of activated carbon from wool waste and the comparison of muffle furnace and microwave heating methods. <i>Powder Technology</i> , 2013 , 249, 234-240	5.2	31
138	Rapid and efficient removal of Pb(II) from aqueous solutions using biomass-derived activated carbon with humic acid in-situ modification. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 145, 442-448	7	31
137	Ultra-high Rhodamine B adsorption capacities from an aqueous solution by activated carbon derived from Phragmites australis doped with organic acid by phosphoric acid activation. <i>RSC Advances</i> , 2016 , 6, 40818-40827	3.7	31
136	Reduction of nitrous oxide emissions from partial nitrification process by using innovative carbon source (mannitol). <i>Bioresource Technology</i> , 2016 , 218, 789-95	11	30
135	Development of a nitrogen-functionalized carbon adsorbent derived from biomass waste by diammonium hydrogen phosphate activation for Cr(VI) removal. <i>Powder Technology</i> , 2017 , 318, 459-464	5.2	29
134	Minimization of nitrous oxide emission from anoxic-oxic biological nitrogen removal process: effect of influent COD/NH4+ ratio and feeding strategy. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 115, 272-8	3.3	29
133	Enhanced phosphorus removal in intermittently aerated constructed wetlands filled with various construction wastes. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 22524-22534	5.1	29
132	Enhanced nutrient removal and mechanisms study in benthic fauna added surface-flow constructed wetlands: The role of Tubifex tubifex. <i>Bioresource Technology</i> , 2017 , 224, 157-165	11	29
131	Composition of extracellular polymeric substances in a partial nitrification reactor treating high ammonia wastewater and nitrous oxide emission. <i>Bioresource Technology</i> , 2015 , 190, 474-9	11	29
130	Identifying sources of nitrous oxide emission in anoxic/aerobic sequencing batch reactors (A/O SBRs) acclimated in different aeration rates. <i>Enzyme and Microbial Technology</i> , 2011 , 49, 237-45	3.8	29
129	Enhanced long-term organics and nitrogen removal and associated microbial community in intermittently aerated subsurface flow constructed wetlands. <i>Bioresource Technology</i> , 2016 , 214, 871-875	11	29
128	Removal of nitrogen from low pollution water by long-term operation of an integrated vertical-flow constructed wetland: Performance and mechanism. <i>Science of the Total Environment</i> , 2019 , 652, 977-988	10.2	29
127	Purification ability and carbon dioxide flux from surface flow constructed wetlands treating sewage treatment plant effluent. <i>Bioresource Technology</i> , 2016 , 219, 768-772	11	28
126	Nitrous oxide generation in denitrifying phosphorus removal process: main causes and control measures. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 5353-60	5.1	28
125	Analysis of factors affecting the performance of partial nitrification in a sequencing batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 1863-70	5.7	27
124	Effect of phosphorus load on nutrients removal and N ₂ O emission during low-oxygen simultaneous nitrification and denitrification process. <i>Bioresource Technology</i> , 2013 , 141, 123-30	11	27
123	High degree of contaminant removal and evolution of microbial community in different electrolysis-integrated constructed wetland systems. <i>Chemical Engineering Journal</i> , 2020 , 388, 124391	14.7	26

122	Enhancement of Ni(II) removal by urea-modified activated carbon derived from Pennisetum alopecuroides with phosphoric acid activation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 60, 335-341	5.3	24
121	Attempts to improve nitrogen utilization efficiency of aquaponics through nitrifies addition and filler gradation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 6671-9	5.1	24
120	Removal mechanisms and plant species selection by bioaccumulative factors in surface flow constructed wetlands (CWs): In the case of triclosan. <i>Science of the Total Environment</i> , 2016 , 547, 9-16	10.2	23
119	Influence of organic shock loads on the production of N ₂ O in denitrifying phosphorus removal process. <i>Bioresource Technology</i> , 2013 , 141, 160-6	11	23
118	Adsorption of Basic Violet 14 in aqueous solutions using KMnO ₄ -modified activated carbon. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 188-93	9.3	23
117	Secondary effluent purification by a large-scale multi-stage surface-flow constructed wetland: A case study in northern China. <i>Bioresource Technology</i> , 2018 , 249, 1092-1096	11	22
116	Adsorption of amoxicillin by Mn-impregnated activated carbons: performance and mechanisms. <i>RSC Advances</i> , 2016 , 6, 11454-11460	3.7	22
115	Improving nitrogen utilization efficiency of aquaponics by introducing algal-bacterial consortia. <i>Bioresource Technology</i> , 2017 , 245, 358-364	11	22
114	An ammoniation-activation method to prepare activated carbon with enhanced porosity and functionality. <i>Powder Technology</i> , 2017 , 309, 74-78	5.2	21
113	Large-scale multi-stage constructed wetlands for secondary effluents treatment in northern China: Carbon dynamics. <i>Environmental Pollution</i> , 2018 , 233, 933-942	9.3	21
112	Physicochemical characteristics and sorption capacities of heavy metal ions of activated carbons derived by activation with different alkyl phosphate triesters. <i>Applied Surface Science</i> , 2014 , 316, 443-450	6.7	21
111	Activated carbons with well-developed microporosity prepared from Phragmites australis by potassium silicate activation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 2801-2804	5.3	21
110	Examination of oxygen release from plants in constructed wetlands in different stages of wetland plant life cycle. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 9709-16	5.1	20
109	Sorption of norfloxacin from aqueous solutions by activated carbon developed from Trapa natans husk. <i>Science China Chemistry</i> , 2011 , 54, 835-843	7.9	20
108	Effect of Plant Harvesting on the Performance of Constructed Wetlands during Summer. <i>Water (Switzerland)</i> , 2016 , 8, 24	3	20
107	Effect of influent COD/N ratio on performance and N ₂ O emission of partial nitrification treating high-strength nitrogen wastewater. <i>RSC Advances</i> , 2015 , 5, 61345-61353	3.7	19
106	Effect of seasonal variation on nitrogen transformations in aquaponics of northern China. <i>Ecological Engineering</i> , 2016 , 94, 30-36	3.9	19
105	Nitrous oxide emission in an aerobic granulation sequencing batch airlift reactor at ambient temperatures. <i>International Biodeterioration and Biodegradation</i> , 2013 , 85, 533-538	4.8	19

104	Nitrous oxide emissions from a typical northern Chinese municipal wastewater treatment plant. <i>Desalination and Water Treatment</i> , 2011 , 32, 145-152		19
103	Recent advances in the enhanced nitrogen removal by oxygen-increasing technology in constructed wetlands. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 205, 111330	7	19
102	Removal of Cd(II) and Ni(II) from aqueous solutions using activated carbon developed from powder-hydrolyzed-feathers and <i>Trapa natans</i> husks. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 560, 426-433	5.1	19
101	N ₂ O reduction during municipal wastewater treatment using a two-sludge SBR system acclimatized with propionate. <i>Chemical Engineering Journal</i> , 2013 , 222, 353-360	14.7	18
100	Nutrient removal and microbial mechanisms in constructed wetland microcosms treating high nitrate/nitrite polluted river water. <i>RSC Advances</i> , 2016 , 6, 70848-70854	3.7	18
99	In-situ modification of activated carbon with ethylenediaminetetraacetic acid disodium salt during phosphoric acid activation for enhancement of nickel removal. <i>Powder Technology</i> , 2018 , 325, 113-120	5.2	18
98	Optimization of the green and low-cost ammoniation-activation method to produce biomass-based activated carbon for Ni(II) removal from aqueous solutions. <i>Journal of Cleaner Production</i> , 2017 , 159, 38-46	10.3	17
97	Comparisons of microbial abundance and community among different plant species in constructed wetlands in summer. <i>Ecological Engineering</i> , 2015 , 82, 376-380	3.9	17
96	Characterization and application of expanded graphite modified with phosphoric acid and glucose for the removal of Ni(II) from aqueous solution. <i>Applied Surface Science</i> , 2015 , 357, 2355-2363	6.7	17
95	Effect of photosynthetically elevated pH on performance of surface flow-constructed wetland planted with <i>Phragmites australis</i> . <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15524-31	5.1	17
94	Removal of Chloramphenicol from Aqueous Solution Using Low-Cost Activated Carbon Prepared from <i>Typha orientalis</i> . <i>Water (Switzerland)</i> , 2018 , 10, 351	3	17
93	Performance and mechanism of triclosan removal in simultaneous nitrification and denitrification (SND) process under low-oxygen condition. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 1653-1660	5.7	17
92	Preparation and characterization of activated charcoals from a new source: Feather. <i>Materials Letters</i> , 2012 , 87, 17-19	3.3	17
91	Enhancement of the performance of constructed wetlands for wastewater treatment in winter: the effect of <i>Tubifex tubifex</i> . <i>RSC Advances</i> , 2016 , 6, 34841-34848	3.7	17
90	Application of constructed wetlands in the PAH remediation of surface water: A review. <i>Science of the Total Environment</i> , 2021 , 780, 146605	10.2	17
89	Response of greenhouse gas emissions and microbial community dynamics to temperature variation during partial nitrification. <i>Bioresource Technology</i> , 2018 , 261, 19-27	11	16
88	Carbohydrate-based activated carbon with high surface acidity and basicity for nickel removal from synthetic wastewater. <i>RSC Advances</i> , 2015 , 5, 52048-52056	3.7	16
87	Bioremediation of endosulfan in laboratory-scale constructed wetlands: effect of bioaugmentation and biostimulation. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 12827-35	5.1	16

86	Recent advances in biochar application for water and wastewater treatment: a review. <i>PeerJ</i> , 2020 , 8, e9164	3.1	16
85	Removal pathways of benzofluoranthene in a constructed wetland amended with metallic ions embedded carbon. <i>Bioresource Technology</i> , 2020 , 311, 123481	11	16
84	Enhanced nitrogen removal in biochar-added surface flow constructed wetlands: dealing with seasonal variation in the north China. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 3675-3684	5.1	16
83	Performance of constructed wetlands and associated mechanisms of PAHs removal with mussels. <i>Chemical Engineering Journal</i> , 2019 , 357, 280-287	14.7	16
82	Microbial community characteristics during simultaneous nitrification-denitrification process: effect of COD/TP ratio. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2557-65	5.1	15
81	Intensified sulfamethoxazole removal in an electrolysis-integrated tidal flow constructed wetland system. <i>Chemical Engineering Journal</i> , 2020 , 390, 124545	14.7	15
80	Nutrients removal and nitrous oxide emission during simultaneous nitrification, denitrification, and phosphorus removal process: effect of iron. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15657-64	5.1	15
79	Exploring the linkage between bacterial community composition and nitrous oxide emission under varied DO levels through the alternation of aeration rates in a lab-scale anoxic-oxic reactor. <i>Bioresource Technology</i> , 2019 , 291, 121809	11	15
78	Microbial nitrogen removal of ammonia wastewater in poly (butylenes succinate)-based constructed wetland: effect of dissolved oxygen. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9389-9398	5.7	15
77	Simultaneous elimination of antibiotics resistance genes and dissolved organic matter in treatment wetlands: Characteristics and associated relationship. <i>Chemical Engineering Journal</i> , 2021 , 415, 128966	14.7	14
76	A review on the role of plant in pharmaceuticals and personal care products (PPCPs) removal in constructed wetlands. <i>Science of the Total Environment</i> , 2021 , 780, 146637	10.2	14
75	Development of carbon adsorbents with high surface acidic and basic group contents from phosphoric acid activation of xylitol. <i>RSC Advances</i> , 2015 , 5, 81220-81228	3.7	13
74	Impact of COD/N on anammox granular sludge with different biological carriers. <i>Science of the Total Environment</i> , 2020 , 728, 138557	10.2	13
73	Effects of solids accumulation and plant root on water flow characteristics in horizontal subsurface flow constructed wetland. <i>Ecological Engineering</i> , 2018 , 120, 481-486	3.9	13
72	Preparation and characterization of charcoal from feathers and its application in trimethoprim adsorption. <i>Desalination and Water Treatment</i> , 2014 , 52, 5401-5412		13
71	Optimization of Ecological Industrial Chain design based on reliability theory a case study. <i>Journal of Cleaner Production</i> , 2016 , 124, 175-182	10.3	13
70	Adsorption of phenanthrene from aqueous solutions by biochar derived from an ammoniation-hydrothermal method. <i>Science of the Total Environment</i> , 2020 , 733, 139267	10.2	12
69	Coupled methane and nitrous oxide biotransformation in freshwater wetland sediment microcosms. <i>Science of the Total Environment</i> , 2019 , 648, 916-922	10.2	12

68	Relationships of nitrous oxide fluxes with water quality parameters in free water surface constructed wetlands. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009 , 3, 241-247		12
67	Roles of carbon source-derived extracellular polymeric substances in solids accumulation and nutrient removal in horizontal subsurface flow constructed wetlands. <i>Chemical Engineering Journal</i> , 2019 , 362, 702-711	14.7	11
66	Physiological responses of three plant species exposed to excess ammonia in constructed wetland. <i>Desalination and Water Treatment</i> , 2011 , 32, 271-276		11
65	Biosorption of methylene blue from aqueous solution by softstem bulrush (<i>Scirpus tabernaemontani</i> Gmel.). <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 1639-1647	3.5	11
64	Novel zero-valent iron-assembled reactor for strengthening anammox performance under low temperature. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8711-20	5.7	11
63	Removal of Ni(II) from aqueous solutions using activated carbon with manganese formate hydrate in-situ modification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 560, 84-91	5.1	11
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